

State of California - Health and Human Services Agency California Department of Public Health

Drinking Water and Radiation Laboratory Branch

850 Marina Bay Parkway, Richmond, CA 94804 Phone: (510) 620-2911 Fax: (510) 620-2940



FINAL Analysis Results Report for Task ID. N12-0192

Analyst: Angela Tan

Analysis Approved By: Shiyamalie Ruberu

Analysis Approval Date: 03/28/2012

Requestor

Name: Steve Hsu

Organization: Radiologic Health Branch

Address: MS 7610, 1500 Capitol Avenue

City: Sacramento

State: CA

Zip Code: 95814-5006 **Phone:** 916-440-7940

Site and Sample Information

Collector's Name: ACH

Date/Time Collected: 03/09/2012 12:00 Date/Time Received: 03/20/2012 10:30

Site Name: Diablo Canyon NPP

Source Name: DCNPP / DCM

R Number: R 92664

Sample Type: Sediment

Sample ID	Sampling Point	Method	<u>Parameter</u>	Result ± CE	MDA95	<u>Units</u>
N12-0192-001	Sediment	HASL Ga-01-R	Dry Wt./Wet Wt.	0.706 ±		
N12-0192-001	Sediment	HASL Ga-01-R	K-40	9.91 ± 0.230	0.202	pCi/g dry wt

Precision criteria for these methods were determined to be acceptable.

^{2.} CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980 MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

		E ANALYSIS (Radiochemical)		
Sanitation and Radiation 850 Marina Bay Parkway,		Date Received Lab No. (Leave Blank)		
Richmond, CA 94804	G104	3-20-12 N12-0192		
510-620-2911		Date & Time Sampled	Serial Number	
		3-9-12 1200	R 92664	
Collector Information	1004	Reporting Information		
Name: Dept./Branch:	DCPP / DCM	Name:		
Address:		Dept./Branch: Address:		
Telephone No.:		Telephone No.:		
Sample Information		Billing Agency		
System Name / Facility: Sampling Point (s):			CB() DTSC	
Cumpling Cont (C).		DWTPB FDB DWR DEMB DOther (Specify)		
System No.:		a civil a civil (Specily)		
TYPE OF SAMPLE (Check	call applicable boxes)			
☐ Drinking Water	☐ Groundwater	☐ Surface Water ☐ W	astewater	
☐ Raw	Water Treatment Plant (WTP)) 🗖 Distribution System 🔲 Po	int of Use (POU)	
☐ Treated (circle one): C	hlorinated / Chloraminated / Chlorine Did	oxide / Ozonated / Peroxizone / Fluoridated	/ Coagulated / pH Adjusted	
☐ Air Filters	Date/Time	☐ Seawater ☐ Si	udge (Semi-solid Samples)	
	Date/Time			
			il/Sediment	
		☐ Wipes ☐ Bid	ota (Type): Sectment	
Net (M³)		☐ Radon Canister ☐ Ot	her:	
☐ Air Charcoal Cartridge				
COMMENTS: (Cautions, e	etc.):			
	servatives added:	Iced/Frozen: Other:		
	mR/hr			
	prearranged and have supervisory app	☐ Radionuclide(s), if known:		
ANALYSIS REQUESTED (For questions, please call 510-620-291			
☐ Gross Alpha	☐ Gross Be	a ☐ Gamma Scan		
☐ Total Uranium	☐ Total Beta	(LSC)		
☐ Total Radium	Tritium (³ l)	· · · · · · · · · · · · · · · · · · ·		
☐ Radium-226	☐ Carbon-1			
☐ Radium-228	☐ lodine-13	1		
Radon-222	☐ Strontium	-89, 90 🔲 Isotopic Uranium		
Other (Specify);	Nickel-63	☐ Iron-55	taline e al company de la company de la La companya de la co	
CHAIN OF CUSTODY				
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Date	Name (Print)		Date	
Time Custody Received	Organization	Signature	Time Custody Released	
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Date	Name (Print)		Date	
Time Custody Received	Organization	Signature	Time Custody Balance	
Normalis and Control of the Control		- gradur	Time Custody Released	
ABORATORY REMARKS L. Condition at Time of Rec	(Leave Blank)			
A. Condition at Time of Rec	eipr: Broken Container	☐ Leaked in Transit ☐	Improper Contains	
☐ Holding Time Exceed		☐ Insufficient Sample	Improper Container	
. Preservatives/Carriers:				
☐ Added While Samplin	ng Added in Laboratory	Not Added	Not Applicable	